

U.S. Department of Commerce, Patent and Trademark Office		Atty. Docket No.	Serial No.
		M-15247 US	10/638,237
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicant(s)	
APR 26 2004 PATENT & TRADEMARK OFFICE		Raymond Browning et al.	
		Filing Date	Group
		August 7, 2003	2644

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
R	AA	US 3,530,244	09/22/1970	Reiffin			
R	AB	US 4,243,839	01/06/1981	Takahashi et al.			
R	AC	US 4,335,274	06/15/1982	Ayers			
R	AD	US 4,573,189	02/25/1986	Hall			
R	AE	US 5,191,618	03/02/1993	Hisey			
R	AF	US 5,408,533	04/18/1995	Reiffin			
R	AG	US 5,542,001	07/30/1996	Reiffin			
R	AH	US 5,588,065	12/24/1996	Tanaka et al.			
R	AI	US 5,694,476	12/02/1997	Klipper			
R	AJ	US 5,815,585	09/29/1998	Klipper			
R	AK	US 6,005,952	12/21/1999	Klipper			

Foreign Patent Documents

							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

R	AQ	Bright, A., "Compensating Non-Linear Distortion in an 'Equal-Hung' Voice Coil," Audio Engineering Society, Convention Paper 5411, Presented at the 111 th Convention, New York, NY, USA, September 21-24, 2001, pp. 1-8
R	AR	Busbridge, S.C., et al., "Crossover Systems in Digital Loudspeakers," Audio Engineering Society, Convention Paper 5305, Presented at the 110 th Convention, Amsterdam, The Netherlands, May 12-15, 2001, pp. 1-7
R	AS	Kaoru, A. and Shogo, K., "Detection threshold for tones above 22 kHz," Audio Engineering Society, Convention Paper 5401, Presented at the 110 th Convention, Amsterdam, The Netherlands, May 12-15, 2001, pp. 1-4

Examiner Ronan Doherty Date Considered 3/10/08

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D	AA	US 6,058,195	05/02/2000	Klippel			
D	AB	US 6,104,817	08/15/2000	Ding			
D	AC	US 6,122,385	09/19/2000	Konno et al.			
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R	AQ	Klippel, W., "Adaptive Nonlinear Control of Loudspeaker Systems," <i>J. Audio Eng. Soc.</i> , Vol. 46, No. 11, (1998), pp. 939-954
R	AR	Klippel, W., "Nonlinear Adaptive Controller for Loudspeakers with Current Sensor," <i>Audio Engineering Society, Convention Paper 4864</i> , Presented at the 106 th Convention, Munich, Germany, May 8-11, 1999, pp. 1-18
R	AS	Klippel, W., "Diagnosis and Remedy of Nonlinearities in Electrodynamical Transducers," <i>Audio Engineering Society, Convention Paper 5261</i> , Presented at the 109 th Convention, Los Angeles, CA, USA, September 22-25, 2000, pp. 1-48

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Rann S. M.

Date Considered

3/10/06

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R	AQ	Klippel, W., "Fast and Accurate Measurement of Linear Transducer Parameters," Audio Engineering Society, Convention Paper 5308, Presented at the 110 th Convention, Amsterdam, The Netherlands, May 12-15, 2001, pp. 1-8						
R	AR	Klippel, W., "Speaker Auralization – Subjective Evaluation of Nonlinear Distortion," Audio Engineering Society, Convention Paper 5310, Presented at the 110 th Convention, Amsterdam, The Netherlands, May 12-15, 2001, pp. 1-8						
R	AS	Klippel, W., "Prediction of Speaker Performance at High Amplitudes," Audio Engineering Society, Convention Paper 5418, Presented at the 111 th Convention, New York, NY, USA, September 21-24, 2001, pp. 1-14						
Examiner	Ramon	Date Considered	3/10/08					

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Ram	AQ	Klippel GmbH, Klippel Analyzer System, Introductory Report, Large Signal Identification (LSI), HTML Report, July 5, 2002, pp. 1-17
Ram	AR	Mazin, V., "Modeling of Magnetic Hysteresis and its Influence on Harmonic Distortion in Electrodynamic Loudspeakers," Audio Engineering Society, Convention Paper 4865, Presented at the 106 th Convention, Munich, Germany, May 8-11, 1999, pp. 1-16
Ram	AS	Mihelich, R., "Loudspeaker Nonlinear Parameter Estimation: An Optimized Method," Audio Engineering Society, Convention Paper 5419, Presented at the 111 th Convention, New York, NY, USA, September 21-24, 2001, 1 p. (Abstract)

Examiner Ram Date Considered

3/10/06

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R	AQ	Schurer, H., et al., "Theoretical and Experimental Comparison of Three Methods for Compensation of Electrodynamic Transducer Nonlinearity," <i>J. Audio Eng. Soc.</i> , Vol. 46, No. 9, September 1998, pp. 723-739					
R	AR	Suykens, J., et al., "Feedback Linearization of Nonlinear Distortion in Electrodynamic Loudspeakers," <i>J. Audio Eng. Soc.</i> , Vol. 43, No. 9, September 1995, pp. 690-694					
R	AS	Teixeira, V., et al., "Study of loudspeaker electromechanical nonlinearities and their compensation," Presented at the International Conference on Signal Processing Applications and Technology (ICSPAT), Boston, Massachusetts, USA, October 7-10, 1996, pp. 321-325					
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RJ	AQ	Thiele, N., "Loudspeaker Crossovers With Notched Responses," Audio Engineering Society Convention, Convention Paper 5419, Presented at the 108 th Convention, Paris, France, February 19-22, 2000, pp. 1-21
RJ	AR	Thiele, N., "Phase Considerations in Loudspeaker Systems," Audio Engineering Society, Convention Paper 5307, Presented at the 110 th Convention, Amsterdam, The Netherlands, May 12-15, 2001, pp.1-13
	AS	

Examiner	Ron Ch	Date Considered	3/10/04
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